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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/556,068	04/21/2000	Sai V. Allavaru	5181-48400	6894

7590 07/22/2003

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EXAMINER

PATEL, HARESH N

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 07/22/2003

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/556,068

Applicant(s)

ALLAVARPU ET AL.

Examiner

Haresh Patel

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 57 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-57 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 April 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-57 are presented for examination.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: "Method and System to overcome shortcomings of the existing standards for Telecom Network Management " or "Method or System that is configurable to authenticate the Telecom Network Management devices and provides access control of existing standards for Telecom Network Management events in a platform-independent interface".

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

4. The abstract of the disclosure is objected to because it contains more than 150 words.

Also it must not use term "made be".

Correction is required. See MPEP § 608.01(b).

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Drawings

5. Figures 1a, 1b and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-57 are rejected under 35 U.S.C. 102(e) as being anticipated by Barker et al. U.S. patent number 6,3,63,421.

8. As per claims 1, 20 and 39, Barker teaches the following:

a network management system comprising (e.g., a management computer is connected to an element management system server through a special communication link including a computer internet, col.1, lines 27-30),

a network management method comprising (e.g., a method is provided for remotely managing a plurality of network element of a telecommunications network, col. 1, lines 24-30),

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a carrier medium comprising program instructions for network management, wherein the program instructions are computer-executable to perform:

a gateway (e.g., an element management server) which is coupled to one or more managed objects (e.g. at least one of the plurality of network elements is also coupled to the element management server through the computer internet, e.g., col. 1, lines 29-36) and which is configured to deliver events generated by the managed objects to one or more managers (e.g., the element management server is provided with application processor specific events and command acknowledgements, col. 1, lines 63-65) or to deliver requests generated by the managers to the one or more managed objects (e.g., the element management server is provided with application processor specific events and command acknowledgements, col. 1, lines 63-65); and

a platform-independent interface to the gateway (e.g., CORBA will serve as the IPC for functions residing on the server, thereby eliminating any platform-specific IPC from the implementation, col. 4, lines 37-55), wherein the gateway is configurable to communicate with the managers through the platform-independent interface to deliver the events or requests (e.g., the element management server is provided with application processor specific events and command acknowledgements, col. 1, lines 63-65),

wherein the gateway is configurable to authenticate the managers to receive the events from or to send the requests to the managed objects (e.g., the server supports basic server authentication, and can be enhanced to support SSL (Secure Socket Layer) if encryption of the browser to server connection is required. Secure administrator administration of web server including administration of the client name and password for access control, col. 8, lines 31-54).

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9. As per claims 2-4, 21-23 and 40-42, Barker teaches the following:

the network management system of claim 1, wherein the gateway is configurable to determine whether each of the managers is authorized to communicate with each of the managed objects (e.g., the server supports basic server authentication, and can be enhanced to support SSL (Secure Socket Layer) if encryption of the browser to server connection is required. Secure administrator administration of web server including administration of the client name and password for access control, col. 8, lines 31-54),

the network management system of claim 1, wherein the gateway is configurable to authenticate the managers to receive the events from or to send the requests to the managed objects as a function of the identity of the managed object objects (e.g., the server supports basic server authentication, and can be enhanced to support SSL (Secure Socket Layer) if encryption of the browser to server connection is required. Secure administrator administration of web server including administration of the client name and password for access control, col. 8, lines 31-54),

the network management system of claim 1, wherein the gateway is configurable to authenticate the managers to receive the events or send the requests as a function of user IDs entered by users of the managers objects (e.g., the server supports basic server authentication, and can be enhanced to support SSL (Secure Socket Layer) if encryption of the browser to server connection is required. Secure administrator administration of web server including administration of the client name and password for access control, col. 8, lines 31-54).

10. As per claims 5, 24 and 43, Barker teaches the following:

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The network management system of claim 1, wherein the events or requests are delivered by the gateway through the platform-independent interface according to Internet Inter-Object Protocol (IIOP) (e.g., the Orbix Naming Service daemon provides symbolic lookup of servers on the network and is necessary to support the IIOP protocol, col. 9, lines 15-19).

11. As per claims 6-7, 25-26 and 44-45, Barker teaches the following:

the network management system of claim 1, wherein the platform-independent interface to the gateway is expressed in an interface definition language (e.g., the EMAPI 55 is implemented utilizing an industry standard object management group interface description language (IDL), col. 39, lines 1-15, figure 15), and wherein the interface definition language comprises a language for defining interfaces to the managed objects across a plurality of platforms and across a plurality of programming languages (e.g., IDL is used to describe any resource or service a server component wants to expose to its clients without regard to its implementation language or operating system, col. 39, lines 1-15, figure 15),

the network management system of claim 6, wherein the interface definition language comprises OMG IDL (e.g., object management group (OMG) IDL, col. 7, lines 1-30).

12. As per claims 8-9, 27-28 and 46-47, Barker teaches the following:

the network management system of claim 1, wherein the managed objects comprise one or more objects corresponding to a telephone network (e.g., a management computer associated with an element management system client is connected to a network element and element

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management system client through a public telephone network (PSTN), col. 3, lines 47 – 54, figure 1A),

the network management system of claim 1, wherein the managed objects comprise an object corresponding to a telecommunications device (e.g., method for computer internet remote management of a telecommunication network element, title).

13. As per claims 10-15, 29-34 and 48-53, Barker teaches the following:

the network management system of claim 1, wherein the gateway is configurable to provide security audit trails (e.g., Security, this functionality provides a method of client based access control of network elements, maintenance units and operations on network elements/maintenance units, the server retrieves the client record from local data services, col. 30, lines 44-63),

the network management system of claim 10, wherein the gateway providing security audit trails comprises the gateway providing access to a logging service (e.g., a client application must register with the server by providing identification of the client host, port, client , and a password, col. 30, lines 44-63),

the network management system of claim 10, wherein the logging service is operable to log an ID of a user that receives each event or sends each request (e.g., a client application must register with the server by providing identification of the client host, port, client , and a password, in any case, all client requests are validated at the server, col. 30, lines 44-63),

the network management system of claim 10, wherein the logging service is operable to log an ID of the managed object that is the source of each event or the target of each request

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(e.g., a client application must register with the server by providing identification of the client host, port, client , and a password, in any case, all client requests are validated at the server, col. 30, lines 44-63),

the network management system of claim 10, wherein the logging service is operable to log a time at which each event or request is generated (e.g., Event configuration file defines which events are to be logged locally , col. 31, lines 51-65, an event header contains information, time of the event, col. 41, lines 62-66),

the network management system of claim 10, wherein the logging service is operable to log a time at which each event or request is delivered (e.g., an event header contains information, time of the event, col. 41, lines 62-66),

14. As per claims 16-17, 35-36 and 54-55, Barker teaches the following:

the network management system of claim 1, wherein the requests comprise a query for information concerning one of the managed objects (e.g., each managed object service class must implement the managed object interface, which defines configuration and status services like viewconfig, used to obtain configuration information for all network elements, col. 40, lines 27-38),

the network management system of claim 1, wherein the requests comprise a command to set one or more parameters of one of the managed objects (e.g., each managed object service class must implement the managed object interface, which defines configuration and status services like viewconfig, used to obtain configuration information for all network elements, col. 40, lines 27-38),

15. As per claims 18-19, 37-38 and 56-57, Barker teaches the following:

the network management system of claim 1, wherein the requests are converted from the interface definition language to a Portable Management Interface (PMI) format prior to delivery to the managed objects (e.g., SNMP Mediator 160 provides translation between the MIB ASN.1 format and the managed object notation used in this architecture, figure 3),

the network management system of claim 1, wherein the requests are converted from the interface definition language to a platform-specific format prior to delivery to the managed objects (e.g., SNMP Mediator 160 provides translation between the MIB ASN.1 format and the managed object notation used in this architecture, figure 3).

Conclusion

The following prior art is cited but not relied upon:

- a. 6,343,332 Ueda. Ueda teaches a configurable gateway, which delivers the events and requests using a platform-independent interface.
- b. 5,586,260 Hu. Hu clearly teaches a configurable gateway, which implements security mechanisms for the managed objects.
- c. 5,511,122 Atkinson. Atkinson an intermediate network authentication mechanism.
- d. 6,356,930 Garg. Garg teaches how to improve the network by using gateways. He teaches object request broker at the client and the gateway so the gateway can efficiently access objects from the servers and retrieve the object on behalf of the client.

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- e. 6,324,648 Grantges, Jr. Grantges teaches a gateway coupled with web devices, which uses platform-independent interface.
- f. ~~6,208,345~~ Sheard et al. Sheard teaches device that is coupled with several TMN devices and which also configures and parses messages among TMN devices. It also uses platform-independent interface.
- g. ~~6,321,337~~ Reshef et al. Reshef clearly teaches a security gateway system that is used for authentication purpose and uses CORBA, which is used for platform-independent interface.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Haresh Patel whose telephone number is (703) 605-5234. The examiner can normally be reached on Monday-Friday from 8:00 am to 5:30 pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee, can be reached at (703) 305-8498.

The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 306-5404.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Haresh Patel

July 09, 2003.


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